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APPLICATION NO	). FIL	ING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/618,593	07	7/15/2003	Satoshi Torii	2003_0934A	6870
513	7590	03/22/2005		EXAM	INER
	-	D & PONACK, L	NORRIS, JEREMY C		
2033 K ST SUITE 800	REET N. W. )			ART UNIT	PAPER NUMBER
WASHING	GTON, DC	20006-1021		2841	
				DATE MAILED: 03/22/200	5

Please find below and/or attached an Office communication concerning this application or proceeding.

			A
	Application No.	Applicant(s)	
	10/618,593	TORII, SATOSHI	
Office Action Summary	Examiner	Art Unit	
	Jeremy C. Norris	2841	
The MAILING DATE of this communication Period for Reply	on appears on the cover sheet w	th the correspondence address	
A SHORTENED STATUTORY PERIOD FOR F THE MAILING DATE OF THIS COMMUNICAT  - Extensions of time may be available under the provisions of 37 after SIX (6) MONTHS from the mailing date of this communicat  - If the period for reply specified above is less than thirty (30) days  - If NO period for reply is specified above, the maximum statutory  - Failure to reply within the set or extended period for reply will, by Any reply received by the Office later than three months after the earned patent term adjustment. See 37 CFR 1.704(b).	TION.  CFR 1.136(a). In no event, however, may a ricon.  s, a reply within the statutory minimum of thin period will apply and will expire SIX (6) MON y statute, cause the application to become AB	eply be timely filed  y (30) days will be considered timely. THS from the mailing date of this communication. ANDONED (35 U.S.C. § 133).	
Status			
1) Responsive to communication(s) filed on	<u>15 July 2003</u> .		
2a) ☐ This action is <b>FINAL</b> . 2b) ☑	This action is non-final.		
3) Since this application is in condition for a	llowance except for formal matt	ers, prosecution as to the merits is	
closed in accordance with the practice ur	nder <i>Ex par</i> te <i>Quayle</i> , 1935 C.D	. 11, 453 O.G. 213.	
Disposition of Claims			
4) Claim(s) 1-3 is/are pending in the application	ation.		
4a) Of the above claim(s) is/are wi	thdrawn from consideration.		
5) Claim(s) is/are allowed.			
6)⊠ Claim(s) <u>1-3</u> is/are rejected.			
7) Claim(s) is/are objected to.			
8) Claim(s) are subject to restriction	and/or election requirement.		
Application Papers			
9)⊠ The specification is objected to by the Ex	aminer.		
10)⊠ The drawing(s) filed on <u>15 July 2003</u> is/ar	e: a) accepted or b) object	ted to by the Examiner.	
Applicant may not request that any objection	to the drawing(s) be held in abeyar	ce. See 37 CFR 1.85(a).	
Replacement drawing sheet(s) including the	correction is required if the drawing	(s) is objected to. See 37 CFR 1.121(d)	•
11)☐ The oath or declaration is objected to by t	the Examiner. Note the attached	Office Action or form PTO-152.	
Priority under 35 U.S.C. § 119			
12)⊠ Acknowledgment is made of a claim for fo	oreign priority under 35 U.S.C. §	119(a)-(d) or (f).	
a)⊠ All b)□ Some * c)□ None of:			
<ol> <li>Certified copies of the priority docu</li> </ol>	uments have been received.		
2. Certified copies of the priority docu	ıments have been received in A	pplication No	
3. Copies of the certified copies of the	e priority documents have been	received in this National Stage	
application from the International E	Bureau (PCT Rule 17.2(a)).		
* See the attached detailed Office action for	a list of the certified copies not	received.	
Attachment(s)			
1) Notice of References Cited (PTO-892)	4) $\Box$ Interview S	Summary (PTO-413)	
2) Notice of Draftsperson's Patent Drawing Review (PTO-9	48) Paper No(s	s)/Mail Date	
<ol> <li>Information Disclosure Statement(s) (PTO-1449 or PTO/ Paper No(s)/Mail Date <u>7-15-03</u>.</li> </ol>	SB/08) 5)  Notice of II	nformal Patent Application (PTO-152)	

Application/Control Number: 10/618,593

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### **DETAILED ACTION**

# **Priority**

Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

## Specification

Applicant is reminded of the proper content of an abstract of the disclosure.

A patent abstract is a concise statement of the technical disclosure of the patent and should include that which is new in the art to which the invention pertains. If the patent is of a basic nature, the entire technical disclosure may be new in the art, and the abstract should be directed to the entire disclosure. If the patent is in the nature of an improvement in an old apparatus, process, product, or composition, the abstract should include the technical disclosure of the improvement. In certain patents, particularly those for compounds and compositions, wherein the process for making and/or the use thereof are not obvious, the abstract should set forth a process for making and/or use thereof. If the new technical disclosure involves modifications or alternatives, the abstract should mention by way of example the preferred modification or alternative.

The abstract should not refer to purported merits or speculative applications of the invention and should not compare the invention with the prior art.

Where applicable, the abstract should include the following:

- (1) if a machine or apparatus, its organization and operation;
- (2) if an article, its method of making;
- (3) if a chemical compound, its identity and use;
- (4) if a mixture, its ingredients;
- (5) if a process, the steps.

Extensive mechanical and design details of apparatus should not be given.

Applicant is reminded of the proper language and format for an abstract of the disclosure.

The abstract should be in narrative form and generally limited to a single paragraph on a separate sheet within the range of 50 to 150 words. It is important that the abstract not exceed 150 words in length since the space provided for the abstract on the computer tape used by the printer is limited. The form and legal phraseology often used in patent claims, such as "means" and "said," should be avoided. The

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abstract should describe the disclosure sufficiently to assist readers in deciding whether there is a need for consulting the full patent text for details.

The language should be clear and concise and should not repeat information given in the title. It should avoid using phrases which can be implied, such as, "The disclosure concerns," "The disclosure defined by this invention," "The disclosure describes," etc.

The abstract of the disclosure is objected to because of the use of the phrase "Disclosed is". Correction is required. See MPEP § 608.01(b).

# Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1-3 are rejected under 35 U.S.C. 102(e) as being anticipated by US 6,849,805 (hereafter Honda).

Honda discloses, referring to figures 4 and 7, a circuit board having circuit patterns printed on its opposite sides, the substrate of which circuit board has a circuit pattern (10) printed on each side, an anti-soldering layer (8) lying on the circuit pattern to prevent soldering material from sticking to the circuit pattern and at least one silk-screen printing area (4) lying on the anti-soldering layer to indicate where a selected electric or electronic part or device (3) is to be mounted, the silk-screen printing area having at least one terminal hole (5) made at its center, characterized in that the board

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has a substrate-exposed zone traversing the silk-screen printing area, and that the terminal hole has a conductor layer (6) formed on its inner circumference [claim 1], wherein the conductor layer is contiguous to the circuit pattern (see figure 7) [claim 2].

Similarly, Honda discloses, referring to figures 4 and 7, a soldering structure for a circuit board having circuit patterns (10) printed on its opposite sides, the substrate of which circuit board has a circuit pattern printed on each side, an anti-soldering layer (8) lying on the circuit pattern to prevent soldering material from sticking to the circuit pattern and at least one silk-screen printing area (4) lying on the anti-soldering layer to indicate where a selected electric or electronic part or device (3) is to be mounted, the silk-screen printing area having at least one terminal hole (5) made at its center, characterized in that the board has a substrate-exposed zone traversing the silk-screen printing area, thereby forming a space between the exposed substrate surface and the bottom of the electric or electronic part, which is laid on the silk-screen printing area with its terminal lead or leads (2) passing through the terminal hole or holes, each terminal hole having a conductor layer (6) formed on its inner circumference, the annular space defined by the terminal lead and the surrounding conductor layer in the terminal hole being filled with soldering material (7, see col. 3, lines 50-60) [claim 3].

#### Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. The following documents disclose components mounted to PCBs:

GB 2,246,731 A1 Nippon CMK Corp

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US 6,137,061

Aponte et al..

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jeremy C. Norris whose telephone number is 571-272-1932. The examiner can normally be reached on Monday - Friday, 9:30 am - 5:30 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kamand Cuneo can be reached on 571-272-1957. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2800

**JCSN**